

## SEQUENCE LISTING

<110> TAKEDA PHARMACEUTICAL COMPANY LIMITED

<120> RECEPTOR REGULATOR

<130> 3116WOOP

<150> JP 2002-322534

<151> 2002-11-06

<160> 3

<210> 1

<211> 403

<212> PRT

<213> Human

<400> 1

Met Ala Cys Asn Gly Ser Ala Ala Arg Gly His Phe Asp Pro Glu Asp

1 5 10 15

Leu Asn Leu Thr Asp Glu Ala Leu Arg Leu Lys Tyr Leu Gly Pro Gln

20 25 30

Gln Thr Glu Leu Phe Met Pro Ile Cys Ala Thr Tyr Leu Leu Ile Phe

35 40 45

Val Val Gly Ala Val Gly Asn Gly Leu Thr Cys Leu Val Ile Leu Arg

50 55 60

His Lys Ala Met Arg Thr Pro Thr Asn Tyr Tyr Leu Phe Ser Leu Ala

65 70 75 80

Val Ser Asp Leu Leu Val Leu Leu Val Gly Leu Pro Leu Glu Leu Tyr

85 90 95

Glu Met Trp His Asn Tyr Pro Phe Leu Leu Gly Val Gly Gly Cys Tyr

100 105 110

Phe Arg Thr Leu Leu Phe Glu Met Val Cys Leu Ala Ser Val Leu Asn

115	120	125
Val Thr Ala Leu Ser Val Glu Arg Tyr Val Ala Val Val His Pro Leu		
130	135	140
Gln Ala Arg Ser Met Val Thr Arg Ala His Val Arg Arg Val Leu Gly		
145	150	155
Ala Val Trp Gly Leu Ala Met Leu Cys Ser Leu Pro Asn Thr Ser Leu		
165	170	175
His Gly Ile Arg Gln Leu His Val Pro Cys Arg Gly Pro Val Pro Asp		
180	185	190
Ser Ala Val Cys Met Leu Val Arg Pro Arg Ala Leu Tyr Asn Met Val		
195	200	205
Val Gln Thr Thr Ala Leu Leu Phe Phe Cys Leu Pro Met Ala Ile Met		
210	215	220
Ser Val Leu Tyr Leu Leu Ile Gly Leu Arg Leu Arg Arg Glu Arg Leu		
225	230	235
Leu Leu Met Gln Glu Ala Lys Gly Arg Gly Ser Ala Ala Ala Arg Ser		
245	250	255
Arg Tyr Thr Cys Arg Leu Gln Gln His Asp Arg Gly Arg Arg Gln Val		
260	265	270
Thr Lys Met Leu Phe Val Leu Val Val Val Phe Gly Ile Cys Trp Ala		
275	280	285
Pro Phe His Ala Asp Arg Val Met Trp Ser Val Val Ser Gln Trp Thr		
290	295	300
Asp Gly Leu His Leu Ala Phe Gln His Val His Val Ile Ser Gly Ile		
305	310	315
Phe Phe Tyr Leu Gly Ser Ala Ala Asn Pro Val Leu Tyr Ser Leu Met		
325	330	335

Ser Ser Arg Phe Arg Glu Thr Phe Gln Glu Ala Leu Cys Leu Gly Ala  
 340 345 350  
 Cys Cys His Arg Leu Arg Pro Arg His Ser Ser His Ser Leu Ser Arg  
 355 360 365  
 Met Thr Thr Gly Ser Thr Leu Cys Asp Val Gly Ser Leu Gly Ser Trp  
 370 375 380  
 Val His Pro Leu Ala Gly Asn Asp Gly Pro Glu Ala Gln Gln Glu Thr  
 385 390 395 400  
 Asp Pro Ser  
 403  
 <210> 2  
 <211> 405  
 <212> PRT  
 <213> Mouse  
 <400> 2  
 Met Val Cys Asn Ile Ser Glu Phe Lys Trp Pro Tyr Gln Pro Glu Asp  
 5 10 15  
 Leu Asn Leu Thr Asp Glu Ala Leu Arg Leu Lys Tyr Leu Gly Pro Gln  
 20 25 30  
 Gln Met Lys Gln Phe Val Pro Ile Cys Val Thr Tyr Leu Leu Ile Phe  
 35 40 45  
 Val Val Gly Thr Leu Gly Asn Gly Leu Thr Cys Thr Val Ile Leu Arg  
 50 55 60  
 Asn Lys Thr Met Arg Thr Pro Thr Asn Phe Tyr Leu Phe Ser Leu Ala  
 65 70 75 80  
 Val Ser Asp Met Leu Val Leu Leu Val Gly Leu Pro Leu Glu Leu Tyr  
 85 90 95

Glu Met Gln Gln Asn Tyr Pro Phe Gln Leu Gly Ala Ser Ala Cys Tyr  
 100 105 110  
 Phe Arg Ile Leu Leu Leu Glu Thr Val Cys Leu Ala Ser Val Leu Asn  
 115 120 125  
 Val Thr Ala Leu Ser Val Glu Arg Tyr Val Ala Val Val Arg Pro Leu  
 130 135 140  
 Gln Ala Lys Ser Val Met Thr Arg Ala His Val Arg Arg Met Val Gly  
 145 150 155 160  
 Ala Ile Trp Val Leu Ala Thr Leu Phe Ser Leu Pro Asn Thr Ser Leu  
 165 170 175  
 His Gly Leu Ser Gln Leu Thr Val Pro Cys Arg Gly Pro Val Pro Asp  
 180 185 190  
 Ser Ala Ile Cys Ser Leu Val Gly Pro Met Asp Phe Tyr Lys Leu Val  
 195 200 205  
 Val Leu Thr Thr Ala Leu Leu Phe Phe Cys Leu Pro Met Val Thr Ile  
 210 215 220  
 Ser Val Leu Tyr Leu Leu Ile Gly Leu Arg Leu Arg Arg Glu Arg Met  
 225 230 235 240  
 Leu Leu Gln Val Glu Val Lys Gly Arg Lys Thr Ala Ala Thr Gln Glu  
 245 250 255  
 Thr Ser His Arg Arg Ile Gln Leu Gln Asp Arg Gly Arg Arg Gln Val  
 260 265 270  
 Thr Lys Met Leu Phe Ala Leu Val Val Val Phe Gly Ile Cys Trp Ala  
 275 280 285  
 Pro Phe His Ala Asp Arg Ile Met Trp Ser Leu Val Tyr Gly His Ser  
 290 295 300  
 Thr Glu Gly Leu His Leu Ala Tyr Gln Cys Val His Ile Ala Ser Gly

305	310	315	320
Ile Phe Phe Tyr Leu Gly Ser Ala Ala Asn Pro Val Leu Tyr Ser Leu			
325	330	335	
Met Ser Thr Arg Phe Arg Glu Thr Phe Leu Gln Ala Leu Gly Leu Gly			
340	345	350	
Thr Gln Cys Cys His Arg Arg Gln Pro Tyr His Gly Ser His Asn His			
355	360	365	
Ile Arg Leu Thr Thr Gly Ser Thr Leu Cys Asp Val Gly His Arg Asn			
370	375	380	
Ser Arg Asp Glu Pro Leu Ala Val Asn Glu Asp Pro Gly Cys Gln Gln			
385	390	395	400
Glu Thr Asp Pro Ser			
405			

<210> 3

<211> 415

<212> PRT

<213> Human

<400> 3

Met Ser Gly Met Glu Lys Leu Gln Asn Ala Ser Trp Ile Tyr Gln Gln			
1	5	10	15
Lys Leu Glu Asp Pro Phe Gln Lys His Leu Asn Ser Thr Glu Glu Tyr			
20	25	30	
Leu Ala Phe Leu Cys Gly Pro Arg Arg Ser His Phe Phe Leu Pro Val			
35	40	45	
Ser Val Val Tyr Val Pro Ile Phe Val Val Gly Val Ile Gly Asn Val			
50	55	60	
Leu Val Cys Leu Val Ile Leu Gln His Gln Ala Met Lys Thr Pro Thr			

65	70	75	80
Asn Tyr Tyr Leu Phe Ser Leu Ala Val Ser Asp Leu Leu Val Leu Leu			
85	90	95	
Leu Gly Met Pro Leu Glu Val Tyr Glu Met Trp Arg Asn Tyr Pro Phe			
100	105	110	
Leu Phe Gly Pro Val Gly Cys Tyr Phe Lys Thr Ala Leu Phe Glu Thr			
115	120	125	
Val Cys Phe Ala Ser Ile Leu Ser Ile Thr Thr Val Ser Val Glu Arg			
130	135	140	
Tyr Val Ala Ile Leu His Pro Phe Arg Ala Lys Leu Gln Ser Thr Arg			
145	150	155	160
Arg Arg Ala Leu Arg Ile Leu Gly Ile Val Trp Gly Phe Ser Val Leu			
165	170	175	
Phe Ser Leu Pro Asn Thr Ser Ile His Gly Ile Lys Phe His Tyr Phe			
180	185	190	
Pro Asn Gly Ser Leu Val Pro Gly Ser Ala Thr Cys Thr Val Ile Lys			
195	200	205	
Pro Met Trp Ile Tyr Asn Phe Ile Ile Gln Val Thr Ser Phe Leu Phe			
210	215	220	
Tyr Leu Leu Pro Met Thr Val Ile Ser Val Leu Tyr Tyr Leu Met Ala			
225	230	235	240
Leu Arg Leu Lys Lys Asp Lys Ser Leu Glu Ala Asp Glu Gly Asn Ala			
245	250	255	
Asn Ile Gln Arg Pro Cys Arg Lys Ser Val Asn Lys Met Leu Phe Val			
260	265	270	
Leu Val Leu Val Phe Ala Ile Cys Trp Ala Pro Phe His Ile Asp Arg			
275	280	285	

Leu Phe Phe Ser Phe Val Glu Glu Trp Ser Glu Ser Leu Ala Ala Val  
290 295 300

Phe Asn Leu Val His Val Val Ser Gly Val Phe Phe Tyr Leu Ser Ser  
305 310 315 320

Ala Val Asn Pro Ile Ile Tyr Asn Leu Leu Ser Arg Arg Phe Gln Ala  
325 330 335

Ala Phe Gln Asn Val Ile Ser Ser Phe His Lys Gln Trp His Ser Gln  
340 345 350

His Asp Pro Gln Leu Pro Pro Ala Gln Arg Asn Ile Phe Leu Thr Glu  
355 360 365

Cys His Phe Val Glu Leu Thr Glu Asp Ile Gly Pro Gln Phe Pro Cys  
370 375 380

Gln Ser Ser Met His Asn Ser His Leu Pro Thr Ala Leu Ser Ser Glu  
385 390 395 400

Gln Met Ser Arg Thr Asn Tyr Gln Ser Phe His Phe Asn Lys Thr  
405 410 415